



CAPITAL IMPROVEMENTS PROGRAM BUDGET WORKSHEET  
2015 / 2016  
Project Information Sheet

This form MUST be completed for each project requested for funding in the 2015-2016 Capital Budget. Use a separate form for each project, and please prioritize each project 1 through X, with 1 representing your highest priority and X the lowest.

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| <b>Department Name:</b>                | Water Department-Distribution Division   |
| <b>Priority Ranking:</b>               | 3  |
| <b>Project Title:</b>                  | Excavator Replacement  |
| <b>Quantity</b> (if applicable):       | 1  |
| <b>Project Useful Life:</b>            | 8 Years  |
| <b>Cost Estimates:</b>                 | Current FY Project Request: \$80,000<br>Prior Funding: \$0<br>Total Project Cost: \$80,000   |
| <b>Projected Schedule of Purchase:</b> | Completed by the end of June 30, 2016.   |
| <b>Source of Funding:</b>              | Water Fund Reserves  |
| <b>Purpose of Expenditure:</b>         | To replace the existing 2008 Caterpillar excavator due to increased maintenance repairs and over 4,000 operating service hours. Excavator replacement intervals are suggested by manufacturers depending on the type of usage and service hours such that it is recommended to replace the excavator. The excavator's main function is to dig up water main pipe, valves, hydrants, service lines for repairing or replacing.  |
| <b>Project Justification:</b>          | The 2008 Caterpillar excavator has had numerous repairs and is at the end of its useful service life. The existing excavator is inefficient with some of the attachments becoming worn out and unreliable with repairs recently. Due to excessive deterioration the front blade was replaced due to wear and tear. With the extensive water system projects, the excavator has been utilized exhaustively in an effort to keep up with all operations & projects (mainbreaks, valve and hydrant replacements, services, etc) where replacement of the old excavator is necessary for maintaining efficient operations and quality service for our customers. |
| <b>Projected Budget Impact:</b>        | This project will be funded with Water Department reserves. The project makes up 7% of the Water Department-Distribution Division CIP budget.  |

Check those items that apply:

|                                   |  |                                  |                                  |
|-----------------------------------|--|----------------------------------|----------------------------------|
| <b>Type of Project:</b>           | <input checked="" type="checkbox"/> Equipment  | <input type="checkbox"/> Vehicle | <input type="checkbox"/> Project |
| <b>Status of Request:</b>         | <input type="checkbox"/> New Request <input checked="" type="checkbox"/> Funding Requested in Prior Year   |                                  |                                  |
| <b>Status of Item or Project:</b> | <input checked="" type="checkbox"/> Replacing Existing Equipment, Vehicle, Etc.<br><input type="checkbox"/> Equipment, Vehicle, Etc. that is New to the City |                                  |                                  |

Please answer the following questions related this request.

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| <b>1. Has this project been requested previously? If so, when? Was funding awarded? If yes, how much?</b>                         |
| <p>The current project request was referenced as a future project in a previous CIP; however no previous funding was awarded.</p> |

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| <b>2. Description and function of new capital item:</b>  |
| <p>Replace the existing 2008 Caterpillar excavator. The existing excavator has over 4000 operating service hours. Water Distribution utilizes the excavator to repair main breaks, replace valves &amp; hydrant, install water services, etc. The excavator is also used for cooperative projects with other divisions and departments including Water Filtration and Wastewater since they don't have access to this type of equipment.</p> |

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| <b>3. Why is this item needed? Why does the City need to provide this service?</b>   |
| <p>The 2008 Caterpillar excavator has become unreliable, has had numerous repairs and has become inefficient with over 4,000 operating service hours and is at the end of its useful service life. With the amount of water system projects and operations, the excavator will be utilized exhaustively in an effort to maintain operations and projects (i.e. mainbreaks, valve and hydrant replacements, services, etc). Replacement of the old excavator is necessary for maintaining efficient operations and quality service for our customers.</p> |

**4. Explain new or improved service that will result from new item and impact on your department's performance or services provided:**

The new excavator will have less failures and will have more horsepower to dig through heavy clay and stabilized backfill, lift water main sections while being capable to dig deeper and faster which will reduce time on projects. The new excavator will reduce wear and tear on the equipment's hydraulic system and be more stable resulting in some reduced fuel costs. The machine's main function is to dig up water main pipe, valves, service lines and repairing / replacing them. The excavator also requires attachments (i.e. buster) to break through concrete and asphalt. It must be able to reach 17 feet with its boom to dig safely.

**5. What will be the operating budget cost or savings? (List costs/savings for personnel, supplies, and other charges separately).**

The new excavator will have more horsepower resulting in reduced time on projects and is more fuel efficient. The plan is to purchase the same brand / model excavator so as to match the existing excavator used. This will benefit in the number of attachments needed for completing tasks, be interchangeable, and will allow the department to utilize the same vendor groups. This will further reduce capital outlay, repair and maintenance costs with staff. An estimated \$500~\$1000 per year is expected to be saved with the new excavator. A salvage value on existing excavator is estimated at \$10,000.

**6. Does the proposed project comply with the City's Comprehensive Plan?**

Yes. Page 49, Chapter 8

Goal #1: Continue to offer the highest quality, most efficient services and facilities for residents.

f. Continue to coordinate services and facilities with surrounding communities and the County.

h. Update equipment to accommodate improvements and changes in technology while ensuring the health and safety of the public.

**7. Are there other alternatives to the proposed item or request? (E.g., lease vs. buy, repair rather than replace, share with other governmental jurisdictions, etc.)**

The excavator can be purchased with a loan where the purchase price is financed with interest over a time period & then owned by the City. The other option is to purchase it with reserve funds and not pay any interest up front. It is recommended to purchase the vehicle with reserve funds up front and not pay any interest. A salvage cost will be obtained for the existing excavator to reduce the capital outlay.

**8. How is the cost proposed to be funded? Are there alternative sources of funding? (E.g., donations, mileages, special assessments, grants, etc.)**

Water Fund Reserves.

**9. Are there opportunities to share costs and services with other governmental units within the region?**

The project cost will be shared by the rate payers within the communities serviced by the water system in accordance with the water rate structure.

**10. Insert a photo/drawing, or cut-sheet of the site or equipment if available.**



Existing



Proposed

**11. For fixed projects, Include a map of the project location if applicable and/or appropriate.**

N/A